PATENT COOPERATION TREATY



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference 532512001440	FOR FURTHER ACTION	See item 4 below		
International application No. PCT/US2005/004858	International filing date (day/month/year) 10 February 2005 (10.02.2005)	Priority date (day/month/year) 10 February 2004 (10.02.2004)		
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237				
Applicant BARNES-JEWISH HOSPITAL				

1.	This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis. 1(a).					
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.					
	In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.					
3.	3. This report contains indications relating to the following items:					
	Box No. I Basis of the report	Basis of the report				
	Box No. II Priority	Priority				
	Box No. III Non-establishment of applicability	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability				
	Box No. IV Lack of unity of inven	Lack of unity of invention				
		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI Certain documents cite	Certain documents cited				
	Box No. VII Certain defects in the	Certain defects in the international application				
	Box No. VIII Certain observations of	Certain observations on the international application				
4.	4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis.2).					
		Date of issuance of this report 14 August 2006 (14.08.2006)				
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland		Authorized officer Dorothée Mülhausen				
Facsimile No. +41 22 338 82 70		e-mail: pt01@wipo.int				

Form PCT/IB/373 (January 2004)

PATENT COOPERATION TREATY

REC'D 26 SEP 2005

From the
INTERNATIONAL SEARCHING AUTHORITY

To:
KATE H. MURASHIGE
MORRISON & FOERSTER LLP
3811 VALLEY CENTRE DRIVE, SHITE 500

3811 VALLEY CENTRE DRIVE, SUITE 500 SAN DIEGO, CA 92130-2332			E 500	WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY		
				(PCT Rule 43bis.1)		
				Date of mailing (day/month/year) 22 SEP 2((15)		
Applicant's or agent's file reference				FOR FURTHER ACTION See paragraph 2 below		
532512001440			International filling data	·		
International application No. International filing date						
PCT/US05/0 International		cation (IPC) o	10 February 2005 (10.02 or both national classificat	2.2005) 10 February 2004 (10.02.2004)		
			450, 1.21, 9.321, 9.51, 48		. 1	
Applicant	227, 27, 27 4120	00 01 121/	430, 1.21, 7.321, 7.31, 40	~ ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
BARNER-JE	EWISH HOSPI	ΓAL				
This opinion contains indications relating to the following items:						
	Box No. I Basis of the opinion					
E	Box No. II Priority					
	Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
E	Box No. IV Lack of unity of invention					
	Box No. V	Reasoned statement under Rule 43 bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
E	Box No. VI	Certain documents cited				
☐ E	Box No. VII	Certain defe	cts in the international app	olication .		
☐ E	Box No. VIII	Certain obse	rvations on the internation	nal application	· .	
2. FURTE	HER ACTION	N		:		
If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.						
If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.						
For further options, see Form PCT/ISA/220.						
3. For further details, see notes to Form PCT/ISA/220.						
Name and ma	ailing address of	the ISA/ US		Authorized officer	Marie	
Mail Stop PCT, Attn: ISA/US Commissioner for Patents				Gollamudi S. Kish	ore, Ph.D Joff Walson	
P.O. Box 1450 Alexandria, Virginia 22313-1450 Facsimile No. (703) 305-3230				Telephone No. 703 308 1234		

Form PCT/ISA/237 (cover sheet) (January 2004)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.	
PCT/US05/04858 -	

Box No. I Basis of this opinion						
` ,						
1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
This opinion has been established on the basis of a translation from the original language into the following language which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).						
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:						
a. type of material						
a sequence listing						
table(s) related to the sequence listing						
b. format of material						
in written format .						
in computer readable form						
c. time of filing/furnishing						
contained in international application as filed.						
filed together with the international application in computer readable form.						
furnished subsequently to this Authority for the purposes of search.						
the state of the s						
3. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed						
or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the						
application as filed or does not go beyond the application as filed, as appropriate, were furnished.						
4. Additional comments:						
·						
Form PCT/ISA/237(Box No. I) (January 2004)						

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Form PCT/ISA/237 (Box No. V) (January 2004)

International application No. PCT/US05/04858

Box No. V Reasoned statement under Rule applicability; citations and expla				dustrial		
1. Statement	-	•				
Novelty (N)	Claims	1-31		YES		
	Claims	NONE		NO		
Inventive step (IS)	Claims	NONE		YES		
inventive step (i.e.)		1-31		NO		
Industrial applicability (IA)	Claims	1.31		. YES		
		NONE		NO		
(5,023,087). SZOKA teaches a drug delivery system of a delivery vehicle having hyaluron ligand with an affinity for CD44 receptors. The delivery vehicles taught are liposomes, micelles and others. The liposomes further contain a therapeutic or diagnostic agent. Such as radioisotope, MRI imaging agent or ultrasound contrast agent (abstract, columns 3-5, Examples and claims). What is lacking in SZOKA is the teachings of the administration of empty liposomes in addition. YAU-YOUNG while disclosing liposomal delivery systems teaches that administration of empty liposomes increases the half-life of the liposomes containing the active agent (abstract, examples and claims). The administration of empty liposomes along with the liposomes containing a therapeutic agent or diagnostic agent would have been obvious to one of ordinary skill in the art since such an inclusion increases the half-life of the active agent as taught by YAU-YOUNG. Although SZOKA does not teach other ligands such as an antibody attached to the surface of the liposomes, such an attachment would have been obvious since anti-body attachment to the surface of the liposomes for targeted delivery is well known in the art. Claims 1-31 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry.						
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